INFORMATION DISCLOSURE

STATEMENT BY APPLICANT

PTO/SB/08A (08-03) Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

mo persons are required to respond to a collection of information unless it contains a valid OMB control number. Under the Paperwo

Substitute for form 1445

Sheet

Complete if Known Application Number 10/670,681

September 25, 2003 Filing Date First Named Inventor Eric D. Brill

Art Unit 2121 **Examiner Name** Unknown

(Use as many sheets as necessary) Attorney Docket Number MS305080.1/MSFTP475US of

U. S. PATENT DOCUMENTS Cite No. Publication Date Name of Patentee or Pages, Columns, Lines, Where Examiner Document Number MM-DD-YYYY Applicant of Cited Document Relevant Passages or Relevant Initiats' Figures Appear Number-Kind Code² (I trom) US- 6,638,314 10-28-2003 Meyerzon, et al. ^{US-} 6,547,829 04-15-2003 Meyerzon, et al. US- 6,199,081 03-06-2001 Meyerzon, et al. US-US-บร-USus. USus-US-US-US-US-US-UŞ-

		FORE	IGN PATENT DOCU	MENTS		
Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ³ Number ⁴ Kind Code ⁸ (# known)	MM-DD-YYYY		Or Relevant Figures Appear	T°
						Ļ
						↓_
						<u> </u>
						╄
						<u>L</u>
			İ	1		

Examiner Signature	HUS	Date Considered	07/07/07

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. *Applicant's unique citation designation number (optional). *See Kinds Codes of USPTO Petent Documents at www.uspto.gov or MPEP 901.04. *Senter Office that issued the document, by the two-letter code (WIPO Standard ST.3). *For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. *Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.18 if possible. *Applicant is to place a check mark here if English language

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the Inis collection of imormation is required by 37 CFR 1.87 and 1.95. The information is required to obtain or retain a benefit by the public which is to fille (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Peperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Subaribu	Substitute for form 1449/PTO		Complete if Known			
Subsului	e tar tami 1445/FTC	,		Application Number	10/670,681	
INFO	DRMATIO	N DIS	CLOSURE	Filing Date	September 25, 2003	
STA	TEMENT	BY AF	PPLICANT	First Named Inventor	Eric D. Brill	
		. .		Art Unit	2121	
	(Use as many s	neets as ne	cessary)	Examiner Name	Unknown	
Sheet	2	of	2	Attorney Docket Number	MS305080.1/MSFTP475US	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
36		PAOLO BOLDI, et al., Ubicrawler: A Scalable Fully Distributed Web Crawler, Proc. AusWeb02, The Eighth Australian World Wide Web Conference, 2002, pp. 1-9	
Je		VLADISLAV SHKAPENYUK, et al., Design and Implementation of a High-Performance Distributed Web Crawler, Proceedings of the 18th International Conference on Data Engineering, 2002, San Jose, CA	
16		HONGFEI YAN, et al., A Dynamically Reconfigurable Model for a Distributed Web Crawling System, Dept. of Computer Science and Technology, Peking University, P.R. China, Proceedings of the ICCNMC'01, 2001	

Examiner	A 10	Date	87/97/07
Signature		Considered	27-701

^{*}EXAMINER: Initial if reference considered, whigher of not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentially is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute PANE SPTO SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

1 8 2005

Paperwork Rec

Sheet

(Use as many sheets as necessary)

Complete if Known **Application Number** 10/670,681 September 25, 2003 Filing Date First Named Inventor Eric D. Brill Art Unit 2121 Unknown **Examiner Name** MS305080.01/MSFTP475US Attorney Docket Number

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (# known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
d		^{US-} 5 935 210 - A	08/10/1999	Stark, Randall J.	Figures 6C, 9, 10
_ 		US-			Column 3, line 7 -
		US-			line 17
		US-			Column 9, line 13
		US-			- line 58
		US-			
		US-			
		US-			
		US-			
		U\$-			
		US-			
	1	US-			
	1	US-			

		FOREIG	GN PATENT DOCL	MENTS		
Examiner Initiats*	Cite No.1	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	76
		Country Code ³ "Number ⁴ "Kind Code ⁸ (if known)	MM-DD-TTTT		Or Relevant Figures Appear	ĽIJ
त्री		EP-1 120 717- A	08/01/2001	Microsoft	Figures 3-5	
10	l				para. 0032!,	
					0035! - 0037!	
æ		WO-99/48028 - A	09/23/1999	Globalbrain	pg 11, line 26	
0					pg 12, line 16	

Examiner Signature	DX8	Date Considered	07/0	7/0	7

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 'Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.usoto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language

Transation is attached.
This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. 80x 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. 80x 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known Substitute for form 1449/PTO **Application Number** SUPPLEMENTAL 10/670,681 **Filing Date** September 25, 2003 **First Named Inventor** Eric D. Brill

• ... **S**. · · .

INFORMATION DISCLOSURE STATEMENT BY APPLICANT Art Unit 2121 (Use as many sheets as necessary) **Examiner Name** Unknown **Attorney Docket Number** Sheet 2 2 MS305080.01/MSFTP475US of

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (In CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
H		SHERMAN C, Help LookSmart Crawl The Web, Search Engine Watch, "Online!", April 3, 2003, pages 1-4, page 1, last paragraph - page 2	
		HONGFEI YAN, et al, Architectural Design And Evaluation Of An Efficient Web-Crawling System, Parallel And Distributed Processing Symposium, Proceedings 15th International San Fransisco, CA, USA, April 2001, Los Alamitos, CA, USA, IEEE Comput. Soc, US,	
		April 23, 2001, pages 1824-1831, page 1826, right-hand column, last paragraph - page 1828, right-hand column	
		YAMANA H. et al, Experiments Of Collecting WWW Information Using Distributed WWW Robots, Proceedings Of The Annual International ACM SIGIR Conference On Research And Development In Information Retrieval, XX, XX, 1998, pages 379-380, page 379,	
		right-hand column - page 380, left-hand column	
		TAKANO H. et at., Development Of A Scalable Web Crawler, NEC Research And Development, NIPPON Electric Ltd, Tokyo, Japan, vol. 40, no. 3, July 1999, pages 334-339, page 336, left-hand column - page 337, left-hand column	
		BOWMAN C. M., et al, The Harvest Information Discovery And Access System, Computer Networks And ISDN Systems, North Holland Publishing, Amsterdam, NL, vol. 28, no. 1, December 1, 1995, pages 119-125	
W		European Search Report, EP 04 02 0165, mailed 12-03-04	

				<u> </u>
Examiner	0-0	Date	07/07/	02
Signature	Flee	Considered		<i>-</i>

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

MAY 1 9 2005 S

PTO/SB/08b (08-03) Approved for use through 06/30/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

on Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

SUPPLEMENTAL
SUPPLEMENTAL
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

Application Number 10/670,681

Filing Date September 25, 2003

First Named Inventor Eric D. Brill

Art Unit 2121

Examiner Name Unknown

Attorney Docket Number MS305080.01 / MSFTP475US

(Use as many sheets as necessary)

Sheet | 1 | of |

NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, Examiner Cite magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city Initials* No.1 and/or country where published. European Search Report, EP 04 02 0165, mailed 03-02-05 A. SINGH, et al; "Apoidea: A Decentralized Peer-to Peer Architecture for Crawling the World Wide Web", SIGIR 2003: Workshop on Distributed Information Retrieval, (Lecture Notes in Artificial Intelligence), 8-1-03, pp. 126-142, Vol. 2924, Springer-Verlag Berlin, Germany C. Sherman; "Help LookSmart Crawl the Web", Search Engine Watch, http://searchenginewatch.com/searchday/article.php/2177021, April 1, 2003, pp. 1-4 S. IYER; "Squirrel: A Decentralized Peer-to-Peer Web Cache", Proceedings of the 21st ACM Symposium on Principles of Distributed Computing, http://doi.acm.org/10.1145/571825.571861, July 21-24, 2002, pp. 213-222, Monterey, California, USA

Examiner Signature	Dels	Date Considered	0	1/0%	7/0'	7
						

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 129 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.